



Public Safety & Transportation Committee Report

City of Newton **In City Council**

Wednesday, October 19, 2016

Present: Councilors Blazar (Acting Chair), Ciccone, Blazar, Fuller, Yates, Cote, Harney, Lipof and Norton

City Staff: Shane Mark, Director of Operations, Department of Public Works; Nicole Freedman, Director of Transportation; Chief David MacDonald, Sgt. Jay Babcock, Capt. Dennis Geary, Sgt. Frank Eldridge, Newton Police Department

Referred to Public Safety & Transportation and Finance Committees

#356-16 **Appropriate \$135,000 for upgrades to the Police Department's firing range**
HIS HONOR THE MAYOR requesting authorization to appropriate one hundred thirty-five thousand dollars (\$135,000) from Free Cash for the purpose of providing funding for upgrading and improving the Newton Police Department's three-lane indoor firearms range. [10/11/16 @ 11:29 PM]

ACTION: **Public Safety & Transportation Approved 7-0, Councilor Fuller not voting**

NOTE: Chief David MacDonald, Capt. Dennis Geary and Sgt. Frank Eldridge joined the Committee for discussion on this item.

Chief MacDonald stated that this appropriation would provide funding for upgrading and improving the Newton Police Department's three-lane indoor firearms range. He stated that Capt. Geary and Sgt. Eldridge are in charge of the Police Department's training. This new firing range would allow Capt. Geary and Sgt. Eldridge on a regular basis to complete training, refresher courses, drills and exercises without difficulties.

Capt. Geary explained that the three-lane firearms range is indoors, 25 yards in length, the only one in the area. Nearby ranges in the area are of 10-15 yards. The current firing range was installed in 1978 it has provided 38 years of departmental training but the system was discontinued over 15 years ago. Repairs are continuous, over the past 8-10 years parts are being swapped, wires are exposed, the electrical system has been failing, and circuit boards are no longer available for purchase. The ventilation system due to lead is meeting the current state standards. Filters are cleaned one to two times per year. Presently, two of the three-lanes are operational. Sgt. Eldridge said that the third lane is closed and parts are taken from it to keep the other lanes operational.

Capt. Geary said that the firearms range provides indoor training to officers on site, each year, qualifying the officers in shotguns, rifles, handgun courses and night training mandated by the

Municipal Training Committee. The officers are required to shoot twice per year. To be qualified with patrol rifles a 25 yard firing range is required.

This appropriation would allow the department to purchase a wireless blue-tooth retrieval system allowing the department to change and set courses. The steel bullet trap would also be changed due to lead concerns to a granulated rubber system allowing a bullet to be absorbed. New lighting would also be installed to simulate different scenes including night shooting.

Sgt. Eldridge showed Committee members used bullets that are in pieces that shoot back to the officers from the bullet trap. The officers are not being trained in 'shooting on the move' because of safety issues and that they may be hit with bullet pieces coming back at them.

Attached to the agenda were three quotes. Two proposals are from major distributors who provide wireless blue-tooth target systems allowing the system to charge itself. The third proposal does not allow the system to charge itself, must be completed manually.

A Committee member asked if the firing range is available to officers in surrounding cities and towns? Cap. Geary answered yes; nearby cities and towns, take advantage of Newton's firing range because it is 25 yards in length. Watertown, Waltham, the DEA, Massachusetts College of Pharmacy Police and officers from Mt. Ida and Lasell Colleges use their firing range to train.

Without further discussion, Councilor Ciccone made the motion to approve this appropriation. Council members agreed 7-0, Councilor Fuller not voting.

Referred to Public Safety & Transportation and Public Facilities Committees

#338-16 Extend the trial program for snow and ice removal from sidewalks
COUNCILOR DANBERG, requesting an amendment to City of Newton Ordinances Chapter 26, Section 8D Trial program for removal of snow and ice from sidewalks. by extending the expiration date of the trial from November 1, 2016 to November 1, 2017.

ACTION: **Public Safety & Transportation Approved 7-0, Councilor Fuller not voting**

NOTE: Acting Chair Blazar said that this request is to extend the expiration date of the current trial from November 1, 2016 to November 1, 2017.

Without discussion, Councilor Ciccone made the motion to approve the extension of the expiration date. Committee members agreed 7-0, Councilor Fuller not voting.

**Referred to Public Safety & Transportation, Public Facilities and Finance
Committees**

#335-16 **Request for Ordinance amendments to require removal of snow from sidewalks**
COUNCILOR DANBERG requesting that §26-8 through §26-9 and §20-21 of the City of Newton Rev. Ord's., 2012, be amended to establish criteria and provisions for requiring removal of snow in all districts by property owners, occupants, and property managers from sidewalks abutting their property and to review and amend enforcement provisions including structure of fines for snow removal violations. [09/27/16 @ 11:36 AM]

ACTION: **Public Safety & Transportation Held 7-0, Councilor Fuller not voting**

NOTE: Acting Chair Blazar said that he spoke to Councilor Danberg today, she requested that this item be held without discussion.

Without discussion, Councilor Yates made the motion to hold as requested. Committee members agreed 7-0, Councilor Fuller not voting.

#314-16 **Discussion with MassDOT regarding the Needham Street and Elliot Street Bridges**
COUNCILOR YATES, requesting a report from MassDOT on efforts to coordinate the reconstruction of the Needham Street Bridge and to complete the construction of the Elliot Street Bridge to avoid a double detour affecting Newton Upper Falls and sections of Newton. [09/07/16 @ 9:08 PM]

ACTION: **Public Safety & Transportation No Action Necessary 7-0, Councilor Fuller not voting**

NOTE: Mr. Mark joined the Committee for discussion on this item.

Councilor Yates said that it is concerning that a section of Route 128, will be closed to allow crew to demolish the old Highland Avenue Bridge and feels that there will only be terrible traffic problems on the weekend the bridge will be demolished.

Mr. Mark said that the first weekend of November, the highway would be closed from Friday, November 4 at 8:00 p.m. until Sunday, November 6 at 3:00 p.m. to demolish the old bridge. A number of local detours are planned to alleviate traffic. The demolition and closure are part of the Add-A-Lane project.

Without discussion, Councilor Yates made the motion to vote no action necessary as he feels it is out of the City's 'hands'. Council members agreed 7-0, Councilor Fuller not voting.

#72-14 **Discussion of installing a possible bike lane on Walnut Street**
ALD. CICCONE & JOHNSON, requesting a discussion of the installation of a possible bike lane on Walnut Street between Otis Street and Commonwealth Avenue.
[03/03/14 @ 8:17 AM]

ACTION: **Public Safety & Transportation No Action Necessary 8-0**

NOTE: Mr. Mark, Ms. Freedman and Sgt. Babcock joined the Committee for discussion on this item.

Sgt. Babcock said that he is a proponent of bike lanes if they are in safe locations. Installing a bike lane on Walnut Street between Otis Street and Commonwealth Avenue is not safe. Drivers have the tendency to queue up on Walnut Street in the morning and afternoon hours between Tiger Drive to Elm Road. Previously, it was suggested to implement an inlet pushing the sidewalk back on the west side providing a lane into the high school. He remains concerned with the location in the corridor from Mill Street to Elm Street due to the bend of the road, speed and high number of accidents.

Sgt. Babcock said that the department has performed directed patrols in this area. He then provided Council members with accident data. He stated that from 2011 to the present there have been 53 accidents between Otis Street and Commonwealth Avenue. This corridor has many accidents and is unsafe for bicyclists. Data proved the following accidents:

53 Accidents - 2011 to present:

One deer accident

Two curb accidents

Two parked car accidents

Six utility pole accidents

One pedestrian accident

Four bicycle accidents

37 motor vehicle accidents

The department continues to conduct directed patrols. He then said that he has spoken with Newton North High School, Department Public Works and City Councilors addressing the traffic signal. Sgt. Babcock said that he has spoken with Ms. Freedman suggesting painting bike lanes green.

Mr. Mark states there were 53 accidents. The Department of Public Works stated there were two crashes. Bicyclists are using Walnut Street regardless even if it is not striped as a bike lane. Councilor Ciccone said that provides bicyclists a false sense of security.

Ms. Freedman said that bike lanes are a tool in the tool kit providing protection to bicyclists. Bike lanes are proven to make cycling safer. Bike lanes narrow the travel lane reducing crashes and bicyclist and vehicle speeds. Bike lanes organize the traffic flow increasing safety and perceived safety. It is necessary to protect bicyclists.

Committee members expressed their concerns and questions.

- Is Lowell Avenue a better safer corridor to implement bike lanes?
- How do you prevent bicyclists from biking on Walnut Street in this corridor?
- Does painting the bike lanes green make them safer?
- Is it possible to connect the bike lanes in Newton?

- What is the road width of Walnut Street?
- Does GPS have the technology to direct a bicyclist to bike lane locations?
- Education, training, road conditions and safety are necessary.
- Did the directed patrols help with reducing speeding vehicles?
- It appears that areas of Walnut Street are much too narrow and dangerous to implement bike lanes especially where parking is allowed.

Sgt. Babcock answered that Lowell Avenue is narrower than Walnut Street. The width of Walnut Street was unavailable. The directed patrol did help but drivers have the tendency to queue up on Walnut Street in the morning and afternoon hours between Tiger Drive to Elm Road. Drivers have slowed down in the areas of Mill Street, Clyde Street and Kirkstall Road. There is not enough road width to allow vehicles and bicyclists in the southbound direction.

Ms. Freedman answered that painting the bike lanes green is helpful and should be used where elevated attention or conflict points are necessary (near a school, site difficulties, bridges and difficult intersections). Ms. Freedman answered that it is possible to connect bike lanes; it has been accomplished in Philadelphia, Chicago and New York. It is possible to connect the bike lanes using 'baby steps'. The remainder of Walnut Street bike lanes would be implemented in 'baby steps'. Residents could be educated and trained on bike lanes and symbols by receiving information from the City with their bills, excise taxes, etc. Safe Routes to school would continue educating students.

Mr. Mark said that driving schools could also educate new drivers when approaching bike lanes. This section of Walnut Street has been marked with fog lines, the road has been striped the proper width of 5 feet hoping that a dedicated bike lane would be implemented at this location. If it were to come to fruition, and the road dedicated as a bike lane the proper road emblems, decals, signage and sharrows would be installed.

Many Committee members agreed with Sgt. Babcock and his concerns and said that they would only support bike lane locations if they are in safe locations. The City should not consider installing bike lanes if they are not in a safe location. Safety is the first priority and necessary.

Without further discussion, Councilor Lipof made a motion for no action necessary. Committee members agreed 8-0.

At approximately 8:30 p.m., Councilor Yates made a motion to adjourn. Committee members agreed 8-0.

Respectfully submitted,

Richard Blazar, Acting Chair



SETTI D. WARREN
MAYOR

City of Newton, Massachusetts
Office of the Mayor

#356-16

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(617) 796-1100

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(617) 796-1113

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(617) 796-1089

E-mail
swarren@newtonma.gov

October 11, 2016

Honorable City Council
Newton City Hall
1000 Commonwealth Avenue
Newton Centre, MA 02459

Ladies and Gentlemen:

I write to request that your Honorable Council docket for consideration a request to appropriate the sum of \$135,000 from June 30, 2016 Certified Free Cash for the purpose of providing funding for upgrading and improving the Newton Police Department three lane indoor firearms range. This project includes upgrading both the bullet trap and target system from the current 30+ year old technology to a modern state of the art system.

Thank you for your consideration of this matter.

Sincerely,

Setti D. Warren
Mayor

RECEIVED
Newton City Hall
2016 OCT 11 AM 11:29
David A. Olson, Clerk
Newton, MA 02459

Range Upgrade

Dennis Geary

Mon 10/3/2016 2:55 PM

To: David L. MacDonald <dmacdonald@newtonma.gov>; John M. Daly <jdaly@newtonma.gov>;

Cc: Frank S. Eldridge <feldridge@newtonma.gov>;

 3 attachments (218 KB)

3 Lane Proposal - 5-16-16 adjusted.pdf; BTS range demolition.doc; Newton PD upgrade - 2016 Meggitt.pdf;

Chief,

Attached are the proposals for a tighter cost of the range upgrade. The Action Target quote did not include removal of existing range equipment. The new Meggitt quote includes removal and cleanup, shooting lanes and stalls, and granulated rubber trap.

To equalize both and get a better idea of cost, I requested a quote from BTS, Triumvirate and Clean Harbors for range demolition. I have received the BTS quote for demolition.

The Action Target quote and BTS quote is a total of \$135,282.00

The Meggitt quote is \$134,000 +/- . They suggest allocating between 130,000 to 138,000 for the project.

Once we submit this out to bid, the cost will become precise and locked.

Attached is the Action Target quote, the BTS demolition quote, and the Meggitt quote.

Captain Dennis Geary
Special Operations and Training Bureau Commander
Newton Police Department
617-796-2146



Action Target Inc. Box 636, Provo, UT 84603-0636 801-377-8033 FAX: 801-377-8096

Newton Police Dept.

Quotation: 94375 By: Rex Shields Printed: 2016-May-16

Included Items:

1 **3 Lane Fixed Position Range** 124,900.00

25 Yard Shooting Distance - Rifle Grade

3 lanes at 5 feet each

Includes Product, Shipping, and Factory Installation

Rubber Berm Trap - \$43,897

-Trap is 15 feet wide

-10 gauge metal deck construction, 30 degree reclining angle

-24 inch depth of rubber media

-Class A Fire retardant application on media

Complete Automated Target Retrieval System - \$48,908

-3 Deluxe turning 25 yd Mancom Freedom Wireless AWD Retrievers

-Local touch screen target controls in each booth

Light Deflector Baffle Package - \$14,763

-7 rows of 1/4 inch AR500 2' Light Baffles with fascia

-7 rows of steel deflectors mounted to front of baffles

-Fascia includes 1/2 inch fire-treated plywood w/ Z-furrings

-Fascia includes Armstrong 1301a sound material

-Light mounting channel on reverse side of baffle

Delete package

- 14,763

Complete Class II (Rifle Grade) Ballistic Booth System - \$17,332

-2 Class II Half-Glass Stall Dividers

-2 Non Ballistic Solid Stall Ends

-3 Booth tables with booth lighting

1 **Options:** 0.00

Add Mancom Target Retrieval Master Control Screen 1400 w/ remote

Add: \$10,300 to total price

Add Master Control + 10,300

Replace wireless AWD retrieval system with SRET Turning cable driven retrieval system

Remove: \$21,000 from total price

1 **EXCLUSIONS** 0.00

- General range construction (renovation)
- Range electrical (including conduits)
- Overhead hanging structure for baffles
- Delivery truck off-load
- Finish work inside range
- Taxes and/or Prevailing wages (if necessary)

Total 124,900.00

Payment Terms:

25% Down Payment with Contract, 25% to start manufacturing with customer approved final drawings,
40% 2 weeks Prior to ship date, 10% on completion of Action Target Install

Shipping Terms:

FOB DESTINATION: PREPAID

124,900

- 14,763

Installation Terms:

Factory Installation

+ 10,300

Terms and Conditions:

adjusted \$120,437.00

You must reference the Order Number above on your purchase order to secure best price. Price will be honored for 60 days from the quotation date if no other date is specified herein. Action Target reserves the right to adjust installation costs based upon the actual site conditions encountered. Unless explicitly itemized, price does not include taxes, bonds, fees, assessments, licenses, mandatory wage requirements or other regulatory costs which may be applicable to the job site.

Comments:

Use or Disclosure Statement: Any and all information and data contained herein is the property of Action Target Inc (ATI); and shall not for any reason, whether tangible or intangible, be disclosed, duplicated, or used, in whole or in part, for any reason other than to evaluate this quote.



Quality Specialists in Bullet Trap
and Shooting Range Maintenance
September 22, 2016

12024 S. Aero Drive
Plainfield, IL 60585-8796
P 815-254-9554 F 815-254-9558

www.btsranges.com
E-Mail: mail@btsranges.com

MBE Contractor
Asian Minority Owned Business

Captain Denis Geary
Newton Police Department
1321 Washington Street
Newton Centre, MA 02465

RE: Shooting Range Maintenance
Budget Fiscal Year: July 1, 2016 – June 30, 2017
BTL- 16312

Dear Cpt. Denis Geary

The following are proposals for work to be performed on the facility's 3 pt. LE5B Escalator bullet trap and cleaning parts of the shooting range. The services below were quoted at a non-prevailing wage rate. If these services are to be completed under a prevailing wage rate, please provide BTS with the current rates, and at that time BTS will need to re-evaluate and adjust prices accordingly.

Proposal 1 (Bullet Trap Inspection, Scrolls, Basic Clean Plus, Waste – In Conjunction - 1x year)

This proposal is for maintenance on the bullet trap and cleaning parts of the shooting range. The scope of work is as follows:

- Set up a decontamination unit and regulate the work area.
- Empty collection trays.
- Supply containers and package the spent lead projectiles for recycling.
- Recycle spent lead projectiles.
- Disassemble the bullet trap as needed to complete our work.
- Disassemble deceleration chambers.
- Remove the lead build up from the deceleration chambers.
- Supply containers and package the lead build up for recycling.
- Recycle the spent lead projectiles and lead build up from the deceleration chambers.
- Spray the deceleration chambers with graphite lubricant.
- Reassemble deceleration chambers.
- Reassemble the bullet trap per the manufacturer's specifications.
- Visually inspect bullet trap components for wear/damage, compare with manufacturer's specifications, and inform the owner of any visual defects.
- Remove and package 4 damaged gum rubber curtains as lead contaminated hazardous waste.
- Install 4 new gum rubber curtains.
- Client is to supply new gum rubber curtains.
- Replace and/or tighten any loose or missing nuts and bolts on the accessible exterior parts of the bullet trap.
- Remove and package 16 damaged Duro Blocs as lead contaminated hazardous waste.
- Stack new Duro Blocs in front of the bullet trap.
- Client is to supply new Duro Blocs.

- HEPA vacuum accessible intake vents over the bullet trap.
- HEPA vacuum and wet wipe the accessible back side surfaces of the over-trap.
- HEPA vacuum the front of the bullet trap.
- HEPA vacuum accessible floor areas underneath the bullet trap.
- HEPA vacuum and wet wipe the accessible back side surfaces of the ceiling baffles.
- HEPA vacuum and wet wipe the target tracks, carriers and cross braces.
- Wet-wipe shooters booths and all horizontal and vertical surfaces from the firing line to the back wall and from the bottom of the safety ceiling to the floor.
- HEPA vacuum the shooting range floor and walls up to 10 feet.
- HEPA vacuum the first 200 sq. ft. of floor outside the entrance to the shooting range.
- Properly package, label, and dispose in UN-DOT approved containers all cleaning supplies and personal protective equipment as lead-contaminated hazardous waste created by this project. The waste will be disposed of in an EPA approved landfill with the proper manifesting. **Please provide Best Technology Systems, Inc. with your Federal EPA Identification/USEPA Number.**
- Conduct work in accordance with the attached specifications.

The total cost for Proposal 1 will be: \$7,125.00

Proposal 1 pricing is only valid if accepted and completed in conjunction with other BTS clients in the Newton Centre, MA area and at our scheduling availability.

The range will be closed 2 day(s) for the work to be completed.

With these proposals, you will receive the following:

1. Lead licensed supervisor and workers.
2. Both EPA and OSHA guidelines will be implemented.
3. Site specific OSHA compliance plan for range maintenance and waste management.
4. OSHA air monitoring will be analyzed by a third party laboratory.
5. BTS carries commercial general liability insurance of two million dollar limit per occurrence/two million dollar aggregate limit and a two million dollar umbrella policy. If a higher amount is requested, the cost increase will be billed to the client.
6. BTS and our subcontractors carry a one million dollar workman's compensation insurance policy. This does not include subrogation. Subrogation can be added at an additional cost.
7. A final documentation package will be sent once BTS receives air sampling and final payment. (Allow 2 or 3 months).
8. Contractor has over seventeen years servicing bullet traps and shooting ranges.
9. Contractor licensed by manufacturer to work on all Meggitt/Caswell Detroit Armor bullet traps.

This quotation is null and void, if not accepted, in writing, and received by Best Technology Systems, Inc. within 90 days of the proposal date and services rendered by June 30, 2017. Any modifications to this contract must be completed in writing and signed by both parties. Failure to properly modify will be considered a breach of contract.

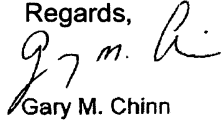
Payment is due within 30 days of the date of the invoice. Late payments will be subject to a fee of 1 ½% per month. The client shall be liable for attorney and other costs incurred to collect our fees.

#356-16
If you choose to pay for this service with a credit card, a 3% processing fee will be added to the final invoice.

If you have any questions or comments, please feel free to call me.

Please sign and fax back the attached specification sheet to us at (815) 254-9558 with the proposal(s) of acceptance, or send to Best Technology Systems, Inc. a signed purchase order with the proposal(s) of acceptance.

Regards,



Gary M. Chinn
President
GMC/KO



BE

Quality Specialists in Bullet Trap
and Shooting Range Maintenance

#356-16

12024 S. Aero Drive
Plainfield, IL 60585-8796
P 815-254-9554 F 815-254-9558

www.btsranges.com
E-Mail: mail@btsranges.com

MBE Contractor
Asian Minority Owned Business

SPECIFICATIONS

FOR CONDUCTING CLEANING/MAINTENANCE WORK IN INDOOR FIRING RANGES CONTAMINATED WITH LEAD

1. Contractor shall have established programs and if requested, shall submit prior to the start of work a copy of the following OSHA required, and other items:
 - Respiratory Protection Program endorsed by a Certified Industrial Hygienist
 - Medical Surveillance Program
 - Evidence of medical examinations for all workers, including a physician's statement indicating the employee is fit to conduct this type of work
 - Certificates of worker training
 - Reference list demonstrating at least 10 previous projects of similar scope and a minimum of five years' experience in this type of work.
2. Contractor is responsible for complying with the following regulations that govern shooting ranges:

29 CFR 1910.1025	State/Local Regulations that govern shooting ranges
29 CFR 1910.134	40 CFR Parts 261-265
3. Contractor shall provide Customer with commercial/general liability, workmen's compensation and no less than one million dollars in lead pollution liability coverage.
4. Contractor performing repair work, disassembly, re-assembly, alteration and/or return to service for the bullet trap shall be trained and authorized to perform such work by the original equipment manufacturer.

JOB NAME: Newton Police Dept., MA BTL#: 16312

ACCEPTED: _____ DATE: _____
If multiple proposals, please state which proposal(s) you are accepting.

Proposal 1 ____

Federal EPA#: _____ Tax Exempt #: _____

Please fax or email a copy of your tax exempt letter with the expiration date, along with this signed acceptance sheet and/or with your purchase order to:

Mona Lopez, mlopez@btsranges.com or FX: 815-254-9558

**MEGGITT**Budgetary ROM (*Rough Order of Magnitude*) Pricingprepared for: **Capt. D Geary**ref: **Newton Police Dept Indoor Range Upgrades**submitted on: **30 Sept, 2016**

prepared by: John Winston

MTSI Ref: # 2016-LF-ROM-10080

Capt. Geary:

I would recommend a project budget of \$130-138K for upgrading/improving the Newton Police Dept. three lane indoor firearms range, located in the basement of the Washington St Police Station. This budget is based on expanding the scope of the project to include upgrading both the bullet trap and target system from the current 30+ year old products (dated technology) to modern state of the art systems.

The added scope of upgrading the LE5B handgun rated steel escalator bullet trap (a pre1970 design) includes removing the bullet trap and over-trap and replacing with an LE7500-OT rifle rated Grantrap™ (current state of the art in bullet traps). The Grantrap safely captures and contains all rounds of 900-3600fps velocity and up to 3600 ft-lbs of energy (this includes all handgun ammo and .308/.3030 and M16 rifles, including jacketed and unjacketed lead bullets, wad cutters, frangible, shotgun slug and buckshot, and even armor piercing rounds, but not tracers or incendiaries) with no measureable airborne lead dust or impact noise. Upgrading to the Grantrap will both make it easier and safer to conduct rifle training without rubber blocks, and enable close engagement training (targets at 15ft or less from shooter) to be safely conducted down range where all rounds will safely impact the bullet trap instead of walls floor and ceiling (as current) .

The original scope of upgrading the target system includes removing the existing (1970's era) three lane DAC2000 target retrieval system and SB7 dividers and replacing with three lanes of XWTgen3 wireless 360° turning target retrieval system and SafeZone rifle rated (UL lvl8) dividers with clear upper and solid color lower panels, and overhead brass catcher, as well as drop down shelf.

The project budget is based on an assumed scope including: demolition (consisting of) safe removal and disposal of the existing bullet trap, target system and firing line components and lead dust clean-up (to make safe for the installation crew to work without HAZMAT PPE) and packaging and EPA/OSHA complaint disposal of lead and contaminated materials; and installation (consisting of) delivery to Washington St. Newton, MA and assembly/installation of a 15ft Grantrap, enclosure guard, 3 lanes of XWT with wireless master control, and SafeZone dividers, commissioning the new target system and controls and conducting acceptance testing and training.

MEGGITT

3 lane Range Upgrade Project Budget

Model No.	DESCRIPTION	QTY	UNIT
LE7500-OT	Grantrap - Rifle rated environmentally friendly bullet trap with integral over-trap baffle and reserve Grantex bin , including Grantex media and TrapVac	15	Lft
JA8D	Rifle rated airspace enclosure guard (4x4 panels) to be installed at toe of trap	1	row
3 LANE TARGET SYSTEMS			
SZ8	Safe-Zone rifle rated firing line divider, clear upper/solid lower (lvl8) with drop down shooter's shelf and gate barricade	3	lanes
XWT	overhead monorail, wireless 360° turning target retrieval system, with 75ft track kit, onboard target light, and touch screen local control	3	lanes
RMCS	RangeMaster™ target control computer, with touch screen monitor	1	lot
INSTALLATION			
RD	Range design and documentation including: submittal/coordination drawings, install package and standard product manuals	1	lot
FSR	Technical support/supervision of install (by local crew),commissioning of target system, and training	6	days
INS	Local (construction) crew and equipment for product installation, under guidance of MTSI FSR	1	wks
DEMO	Removal and disposal of existing LE5B bullet trap and associated lead clean-up, 3 lanes of ATO2000 target system and SB7 stalls, and HEPAvac range	1	lot
FRT	packing and shipping DAP Newton, MA	1	truck
15 lane Range Budget \$ 134K +/- 2%			

Note: this budget does not include allowance for local prevailing wage rates.

TrapVac will require a 230VAC 3Phase 35amp circuit with outlet (to be installed by others) vic the new Enclosure Guard. TrapVac is NOT a continuous load, but only operated during periodic bullet trap maintenance.

This budget assumes the XWT lanes are powered from the existing electrical outlets located at the firing line (currently these power 3 each 10amp loads XWTGen3 will be <5 amp/lane).

This budget assumes XWT installation to existing ATO track hangers and DAC data/ control network cabling from firing line to range control panel.

The tables on the following page contain a further breakdown of the allowances included in the project budget with product descriptions and quantities for your consideration.

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Allowances for Project Budget

Model NO.	DESCRIPTION	QTY	UNIT
XWT-75	overhead monorail, wireless 360° turning target retrieval system, with 75ft track kit, on-board target light, and touch screen local control	3	lanes
RM10K-LE	RangeMaster™ portable/wireless target control computer system includes master, tablet and network	1	lot
SZ8	Safe-Zone rifle rated firing line divider, clear upper/solid lower (lvl8) with WestPoint shelf and gate barricade	3	lanes
RD	project documentation package, including standard O&M manuals	1	lot
SVCS	Freight and MTSI FSR (supv. install, commission targets, conduct training)	3	days
INS	local (construction) crew and equipment to install MTSI products	3	days
Target System allowance \$ 65K +/- 3.5%			
LE7500-OT	Grantrap - with integral over-trap baffle and reserve bin including Grantex media	0	sqft
JA8D	Rifle rated airspace enclosure guard (4x4 panels) install above toe of Grantrap	1	lot
RD	project documentation package, including standard O&M manuals	1	lot
SVCS	Freight and MTSI FSR (supv. install, commission targets, conduct training)	3	days
INS	local (construction) crew and equipment to install MTSI products	3	days
Bullet Trap Allowance \$ 33K +/- 3.5%			
TrapVac	5HP 230VAC 3Ph Grantrap sustainment machine - used for periodic separation of entrained spent bullets from Grantex media	1	lot
TrapVac Allowance \$ 6.5K			
INS	local (construction) crew and equipment to install MTSI products, in accordance with install drawings and manuals under supervision of MTSI FSR	6	days
Crew Allowance \$ 18K +/- 3.5%			
DEMO	removal and disposal of LE5B bullet trap component and 3 lane DAC target retrieval system with SB7 firing line components, including associated lead clean-up and OSHA/EPA compliant packing and removal/disposal	4	days
Removal Allowance \$ 16K +/- 3.5%			

MEGGITT

Notes:

1. This ROM is for planning purposes only. Upon purchasing decision, Meggitt Training Systems will provide a Firm, Fixed Proposal. This ROM is based on limited equipment specifications and no current CAD drawings; many other configurations are available and can be considered. ROM pricing does not include customer specific site requirements
2. No amounts for any taxes, fees, permits, bonds, licenses, prevailing wage requirements, or regulatory fees are included within this budgetary price.
3. Terms: 50% with the order, 50% to ship order. Any deviation must be mutually agreed upon in writing. Delivery: 90-120 days after receipt of order and upon return and approval of MTS Submittal Drawings.
4. These Budgetary numbers are valid for 90 days from the above date.
5. The Terms & Conditions listed herein are not all inclusive. The Meggitt Training Systems, Inc. (MTSI) Terms and Conditions (MTSI-DOM-REV3-10-21-2013) incorporated by reference herein apply to purchase order(s) and/or credit card sale(s) issued by Buyer to Seller that result from this request for pricing. If the Seller receives a purchase order or credit card sale for item(s) the Seller presumes that the buying agency has followed all required competition justifications. MTSI shall provide a copy to the Buyer of the aforementioned document upon request.